Manual 01: Control Center and Data Exchange Requirements
Revision 41 Endorsement

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System Operations Subcommittee
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• Attachment A, Table B: EMS Services

<table>
<thead>
<tr>
<th>Information Services</th>
<th>Periodicity for providing data</th>
<th>PJM Member Regional Transmission Owner</th>
<th>PJM Member Generating Entity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs to PJM</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B.3.5</strong> Frequency</td>
<td>2-10 seconds or per EMS scan</td>
<td>X</td>
<td>✗ O</td>
</tr>
<tr>
<td><strong>B.3.6</strong> Status of BES Circuit Breakers</td>
<td>Per status change or per integrity scan</td>
<td>X</td>
<td>✗ 6</td>
</tr>
</tbody>
</table>

**O**: Optional

6: Mandatory if not Attainable from Existing Telemetry
Other Changes in this Revision

• Cover to Cover Periodic Review
• Attachment A:
  – Added a list of external entities PJM shares network model information with directly.
  – Added a new column in the data specification tables.
    • “Periodicity for providing the data”
    • Change to comply with TOP-003
  – Removed Row B.5 Black Start Test Data from Table B.
  – Removed Row B.16 AVR/PSS Excitation control output.
Other Changes in this Revision

• Attachment B:
  – Removed references to EOP-005-3 R3 and R4, as these are already covered by Manual 36 Attachment G.
Committee Review Timeline

- **SOS**
  - First Read 4/13/2020
- **MRC**
  - First Read 4/30/2020
  - Endorsement 5/14/2020
- **OC**
  - First Read 4/16/2020
  - Endorsement 5/28/2020
- **SOS**
  - Endorsement 5/18/2020
- **Effective Date**
  - 5/28/2020